QC ABSTRACT
AND
QC REPORT

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2020-03-06-20** **Date: 02-01-20**

Project Name : Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

Agency : M/s Executive Engineer, K.R.I.D.L

Customer's Reference : BBMP/EE/BTP/WO/135/19-20

Date of Receipt : 30-12-19

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 31-12-19

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.76	–
2	Finess by Air permeablity method (m^2/kg,Min)	292.1	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

AE(KRI)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIKRECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Kerb	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Drain Bottom Slab Concrete M20	Compressive Strength(7days and 28days)	4 set /31-50 cum	49.65	8	8
9	Drain SideWall Concrete M20	Compressive Strength(7days and 28days)	5 set /50-100 cum	89.37	10	10
10	CCP M30	Compressive Strength(7days and 28days)	7 set /150-200 cum	156.25	14	14

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

ab ID	:	CP-2020-03-06-20 **Date: 28-01-20**
roject Name	:	Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.
gency	:	M/s Executive Engineer, K.R.I.D.L
ustomer's Reference	:	BBMP/EE/BTP/WO/135/19-20
ate of Receipt	:	30-12-19
ample Type	:	Birla Super 53grade
eference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
ate of test	:	31-12-19
nvironmental Conditions during est	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.0N/mm^2	Not less than 53 N/mm^2

Nothing.ND
AE(Civil)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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FOR CIVIL Pro.

R KARTHIKRECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-03-06-20** **Date: 02-01-20**
Project Name	:	Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.
Agency	:	M/s Executive Engineer, K.R.I.D.L
Customer's Reference	:	BBMP/EE/BTP/WO/135/19-20
Date of Receipt	:	30-12-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	30-12-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	7875	8120	54.1	45.9	30-70
4	10 mm	3899	12019	80.1	19.9	10-35
5	4.75 mm	2588	14607	97.4	2.6	0-5
6	Pan	393	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Format No: CP/TF/01

Lab ID : CP-2020-03-06-20

Date: 02-01-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.38	–
5	Bulk Density(Compacted) (Kg/l)	1.45	–
6	Water Absorption(%)	0.22	–

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R KARTHIKRECHAN
Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P..
Bangalore.

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Format No: CP/TF/01

Lab ID	:	**CP-2020-03-06-20** **Date: 02-01-20**
Project Name	:	Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.
Agency	:	M/s Executive Engineer, K.R.I.D.L
Customer Reference	:	BBMP/EE/BTP/WO/135/19-20
Date of Receipt	:	31-12-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	31-12-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	298	298	6.0	94.0	90-100
3	10 mm	2645	2943	58.9	41.1	25-55
4	4.75 mm	1811	4754	95.1	4.9	0-10
5	Pan	246	5000	100	0	–

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-03-06-20**

Date: 02-01-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.35	–
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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FOR CIVIL Pro.

R KARTHIKRECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-03-06-20** **Date: 02-01-20**

Project Name : Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

Agency : M/s Executive Engineer, K.R.I.D.L

Customer's Reference : BBMP/EE/BTP/WO/135/19-20

Date of Receipt : 31-12-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 31-12-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

ab ID : CP-2020-03-06-20 Date: 02-01-20

HYSICAL PROPERTIES

.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.6	–
2	Specific Gravity	2.57	–
3	Material finer than 75 micron(%)	6.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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FOR CIVIL Pro.

R KARTHIKRECHAN
Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF STEEL

ID	:	CP-2020-03-06-20
ct Name	:	Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.
cy	:	M/s Executive Engineer, K.R.I.D.L
mer's Reference	:	BBMP/EE/BTP/WO/135/19-20
of Receipt	:	01-01-20
le Type	:	Sunvik
nce to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
f test:	:	01-01-20

Date: 02-01-20

Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
		(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

M.N.D
AE(HQ)

Assistant Executive Engineer,
Kodigenalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

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R KARTHIKRECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF PRECAST COVER SLAB

Date: 12-02-20

: CP-2020-03-06-20

Name : Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

: M/s Executive Engineer, K.R.I.D.L

er's Reference : BBMP/EE/BTP/WO/135/19-20

Receipt : 08-02-20

Type /Size : Precast Cover Slab

e to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

test : 08/02/2020

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

AE(Tech)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka, B.B.M.P.
Bangalore.

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R KARTHIKRECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

: CP-2020-03-06-20 **Date: 18-02-20**

ame : Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

: M/s Executive Engineer, K.R.I.D.L

's Reference : BBMP/EE/BTP/WO/135/19-20

eceipt : 14-02-20

ype /Size : CC Kerb Stone/ 450*150*500mm

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

st : 14/02/2020

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
A	80.01	150.51	2.164	5027	132.1	26.3	26.3	32.9
B	80.03	150.49	2.193	5029	135.2	26.9	26.9	33.6
C	80.01	150.50	2.115	5027	135.1	26.9	26.9	33.6

AE(WT)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIKRECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/01/2020

D	:	CP-2020-03-06-20
t Name	:	Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.
y	:	M/s Executive Engineer, K.R.I.D.L
mer's Reference	:	BBMP/EE/BTP/WO/135/19-20
f Receipt	:	18-01-20
mer ID	:	Drain Bottom Slab Concrete
e Type /Size	:	150X150X150 mm
e grade/Age	:	M20 / 7 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	23/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	150.13 X 149.86 X 151.74	22499	8.710	410.3	18.2	18.4
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	149.53 X 150.75 X 149.25	22542	8.888	425.5	18.9	
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	151.10 X 149.78 X 149.96	22631	8.069	409.4	18.1	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

FOR CIVIL Pro.

R KARTHIKRECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-06-20 **Date: 13/02/2020**

Name : Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

: M/s Executive Engineer, K.R.I.D.L

er's Reference : BBMP/EE/BTP/WO/135/19-20

Receipt : 18-01-20

er ID : Drain Bottom Slab Concrete

Type /Size : 150X150X150 mm

grade/Age : M20 / 28 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 13/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	151.47 X 151.56 X 151.69	22957	8.987	543.5	23.7	23.4
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	150.65 X 150.31 X 149.39	22644	8.347	510.7	22.6	
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	150.26 X 149.37 X 150.61	22444	8.401	538.0	24.0	

To Hdlg. KD
AE(Ltd)

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

FOR CIVIL Pro.

R KARTHIKRECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2020-03-06-20

Name : Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

Date: 23/01/2020

: M/s Executive Engineer, K.R.I.D.L

er's Reference : BBMP/EE/BTP/WO/135/19-20

Receipt : 18-01-20

er ID : Drain Bottom Slab Concrete

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 23/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
rain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	150.84 X 151.33 X 150.11	22827	8.710	420.7	18.4	18.3
rain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	149.70 X 151.14 X 149.14	22626	8.888	412.5	18.2	
rain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	149.32 X 150.83 X 151.15	22522	8.069	410.6	18.2	

AE(Civil)

Assistant Executive Engineer
Yadlgahalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

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R KARTHIKRECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2020-03-06-20	Date: 13/02/2020
D	:	
ct Name	: Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.	
ty	: M/s Executive Engineer, K.R.I.D.L	
mer's Reference	: BBMP/EE/BTP/WO/135/19-20	
f Receipt	: 18-01-20	
mer ID	: Drain Bottom Slab Concrete	
le Type /Size	: 150X150X150 mm	
le grade/Age	: M20 / 28 Days Compressive Strength	
ence to BIS codes	: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5	
f test	: 13/02/2020	

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	149.74 X 150.58 X 151.11	22547	8.987	534.5	23.7	23.1
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	150.80 X 149.49 X 151.16	22544	8.347	496.5	22.0	
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	151.41 X 150.26 X 151.73	22751	8.401	537.1	23.6	

AE(Rly)

Assistant Executive Engineer
Kadugodi Sub Division,
Whitefield Zone, B.B.M.P.
Bangalore.

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-06-20 **Date: 23/01/2020**

: Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

: M/s Executive Engineer, K.R.I.D.L

: BBMP/EE/BTP/WO/135/19-20

: 18-01-20

: Drain Bottom Slab Concrete

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 23/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	150.59 X 149.39 X 150.52	22496	8.710	416.6	18.5	18.7
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	151.07 X 151.51 X 149.51	22888	8.888	428.9	18.7	
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	150.53 X 150.59 X 149.47	22668	8.069	430.3	19.0	

AE(RW)

Assistant Executive Engineer,
Rajagopal Sub Division,
W.O.No. 8.9 M.P.
Bangalore.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

D	:	CP-2020-03-06-20
t Name	:	Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.
y	:	M/s Executive Engineer, K.R.I.D.L
mer's Reference	:	BBMP/EE/BTP/WO/135/19-20
f Receipt	:	18-01-20
mer ID	:	Drain Bottom Slab Concrete
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 28 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	13/02/2020

Date: 13/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	150.89 X 149.34 X 149.75	22534	8.987	524.6	23.3	23.1
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	149.31 X 151.72 X 149.94	22653	8.347	506.4	22.4	
Drain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	150.28 X 149.52 X 150.26	22470	8.401	532.3	23.7	

AE(Ret)

Assistant Executive Engineer,
Yeshwanthpur Sub Division,
Yeshwanthpur Zone, BBMP,
Bangalore.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2020-03-06-20

Name : Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

Date: 13/02/2020

: M/s Executive Engineer, K.R.I.D.L

...er's Reference : BBMP/EE/BTP/WO/135/19-20

...Receipt : 18-01-20

...er ID : Drain Bottom Slab Concrete

...Type /Size : 150X150X150 mm

...grade/Age : M20 / 28 Days Compressive Strength

...ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

...test : 13/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
...rain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	149.18 X 149.57 X 149.88	22313	8.987	518.7	23.2	23.2
...rain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	151.64 X 150.80 X 150.67	22866	8.347	516.6	22.6	
...rain Bottom Slab Concrete	M20	16/01/2020	13/02/2020	149.93 X 150.80 X 149.52	22608	8.401	537.8	23.8	

AE(...)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Authorized Signatory
Quality Manager

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Name : Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

Date: 23/01/2020

: M/s Executive Engineer, K.R.I.D.L

ner's Reference : BBMP/EE/BTP/WO/135/19-20

f Receipt : 18-01-20

ner ID : Drain Bottom Slab Concrete

le Type /Size : 150X150X150 mm

le grade/Age : M20 / 7 Days Compressive Strength

ance to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 23/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	149.34 X 151.59 X 150.49	22637	8.710	417.0	18.4	18.2
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	150.45 X 150.90 X 149.14	22703	8.888	410.6	18.1	
Drain Bottom Slab Concrete	M20	16/01/2020	23/01/2020	150.09 X 150.25 X 150.23	22550	8.069	409.4	18.2	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Quality Manager

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Certificate No.: TC-9548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2020-03-06-20

Name : Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

Date: 24/01/2020

: M/s Executive Engineer, K.R.I.D.L

's Reference : BBMP/EE/BTP/WO/135/19-20

Receipt : 20-01-20

er ID : Drain SideWall Concrete

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

est : 24/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^1)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	17/01/2020	24/01/2020	149.09 X 151.31 X 151.11	22559	8.710	410.4	18.2	18.4
Drain SideWall Concrete	M20	17/01/2020	24/01/2020	149.99 X 151.94 X 151.96	22789	8.888	421.2	18.5	
Drain SideWall Concrete	M20	17/01/2020	24/01/2020	150.23 X 151.91 X 150.03	22822	8.069	426.2	18.7	

AE(1=1)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 14/02/2020

...b ID	:	CP-2020-03-06-20
...ject Name	:	Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.
...ency	:	M/s Executive Engineer, K.R.I.D.L
...stomer's Reference	:	BBMP/EE/BTP/WO/135/19-20
...te of Receipt	:	20-01-20
...stomer ID	:	Drain SideWall Concrete
...mple Type /Size	:	150X150X150 mm
...mple grade/Age	:	M20 / 28 Days Compressive Strength
...erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
...e of test	:	14/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	17/01/2020	14/02/2020	149.64 X 151.43 X 150.76	22660	8.987	524.7	23.2	23.1
Drain SideWall Concrete	M20	17/01/2020	14/02/2020	149.02 X 149.68 X 151.82	22306	8.347	499.5	22.4	
Drain SideWall Concrete	M20	17/01/2020	14/02/2020	151.44 X 150.14 X 151.43	22737	8.401	542.1	23.8	

AE(NS)

Assistant Executive Engineer,
Kodigenalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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R KARTHIKRECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 24/01/2020

...k ID	:	CP-2020-03-06-20
...ject Name	:	Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.
...ncy	:	M/s Executive Engineer, K.R.I.D.L
...tomer's Reference	:	BBMP/EE/BTP/WO/135/19-20
...e of Receipt	:	20-01-20
...tomer ID	:	Drain SideWall Concrete
...ple Type /Size	:	150X150X150 mm
...ple grade/Age	:	M20 / 7 Days Compressive Strength
...erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
...e of test	:	24/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Drain SideWall Concrete	M20	17/01/2020	24/01/2020	149.09 X 150.77 X 149.39	22479	8.710	407.7	18.1	18.4
Drain SideWall Concrete	M20	17/01/2020	24/01/2020	151.83 X 150.33 X 151.99	22825	8.888	427.4	18.7	
Drain SideWall Concrete	M20	17/01/2020	24/01/2020	151.44 X 151.50 X 149.96	22943	8.069	418.5	18.2	

AE(...)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2020-03-06-20	**Date: 14/02/2020**
ID	: Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.	
ject Name	: M/s Executive Engineer, K.R.I.D.L	
ency	: BBMP/EE/BTP/WO/135/19-20	
tomer's Reference	: 20-01-20	
e of Receipt	: Drain SideWall Concrete	
tomer ID	: 150X150X150 mm	
ple Type /Size	: M20 / 28 Days Compressive Strength	
ple grade/Age	: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5	
erence to BIS codes		
e of test	: 14/02/2020	

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	17/01/2020	14/02/2020	151.70 X 150.01 X 150.11	22757	8.987	541.6	23.8	23.4
Drain SideWall Concrete	M20	17/01/2020	14/02/2020	151.17 X 151.05 X 150.83	22834	8.347	512.5	22.4	
Drain SideWall Concrete	M20	17/01/2020	14/02/2020	150.49 X 149.60 X 150.61	22514	8.401	537.7	23.9	

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, BBMP
Bangalore

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R KARTHIKRECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-06-20 **Date: 24/01/2020**

: Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

: M/s Executive Engineer, K.R.I.D.L

: BBMP/EE/BTP/WO/135/19-20

: 20-01-20

: Drain SideWall Concrete

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 24/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Drain SideWall Concrete	M20	17/01/2020	24/01/2020	150.41 X 149.67 X 149.69	22512	8.710	421.9	18.7	18.6
Drain SideWall Concrete	M20	17/01/2020	24/01/2020	151.31 X 150.86 X 150.10	22827	8.888	423.8	18.6	
Drain SideWall Concrete	M20	17/01/2020	24/01/2020	150.91 X 151.58 X 151.69	22874	8.069	419.7	18.3	

AE(T)

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, BBMP.
Bangalore

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R KARTHIKRECHAN
Authorized Signatory
Quality Manager

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M: 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-06-20 **Date: 14/02/2020**

: Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

: M/s Executive Engineer, K.R.I.D.L

: BBMP/EE/BTP/WO/135/19-20

: 20-01-20

: Drain SideWall Concrete

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 14/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	17/01/2020	14/02/2020	149.33 X 149.85 X 150.51	22377	8.987	515.7	23.0	23.1
Drain SideWall Concrete	M20	17/01/2020	14/02/2020	149.69 X 149.14 X 150.14	22325	8.347	507.0	22.7	
Drain SideWall Concrete	M20	17/01/2020	14/02/2020	150.77 X 151.37 X 150.66	22821	8.401	535.4	23.5	

AE(NS)

Assistant Executive Engineer,
Kadugodi Sub Division,
Whitefield Zone, BBMP,
Bangalore.

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R KARTHIKRECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

: CP-2020-03-06-20

Name : Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

Date: 24/01/2020

er's Reference : M/s Executive Engineer, K.R.I.D.L

Receipt : BBMP/EE/BTP/WO/135/19-20

er ID : 20-01-20

Type /Size : Drain SideWall Concrete

grade/Age : 150X150X150 mm

nce to BIS codes : M20 / 7 Days Compressive Strength

test : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 24/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	17/01/2020	24/01/2020	149.19 X 150.74 X 149.90	22488	8.710	421.8	18.8	18.7
Drain SideWall Concrete	M20	17/01/2020	24/01/2020	150.04 X 149.47 X 149.21	22427	8.888	421.7	18.8	
Drain SideWall Concrete	M20	17/01/2020	24/01/2020	151.69 X 149.74 X 151.96	22714	8.069	420.7	18.5	

AE(W)

Assistant Executive Engineer,
Works Sub Division,
Yelahanka New Town, B.B.M.P.,
Bangalore.

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R KARTHIKRECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2020-03-06-20

Name : Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura. **Date: 14/02/2020**

...er's Reference : M/s Executive Engineer, K.R.I.D.L

...Receipt : BBMP/EE/BTP/WO/135/19-20

...er ID : 20-01-20

...Type /Size : Drain SideWall Concrete

...grade/Age : 150X150X150 mm

...nce to BIS codes : M20 / 28 Days Compressive Strength

...test : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 14/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Drain SideWall Concrete	M20	17/01/2020	14/02/2020	150.90 X 150.06 X 151.00	22643	8.987	527.3	23.3	23.2
Drain SideWall Concrete	M20	17/01/2020	14/02/2020	149.78 X 149.57 X 151.10	22403	8.347	501.9	22.4	
Drain SideWall Concrete	M20	17/01/2020	14/02/2020	150.65 X 149.46 X 151.51	22517	8.401	536.3	23.8	

Ashwin .N.D
-AE(Tech)

Assistant Executive Engineer,
Engineering Cell Division,
Malleshwaram, B.B.M.P.
Bangalore.

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R KARTHIKRECHAN
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Quality Manager

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...eas in

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-06-20

Date: 24/01/2020

: Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

...Name : M/s Executive Engineer, K.R.I.D.L

...mer's Reference : BBMP/EE/BTP/WO/135/19-20

...f Receipt : 20-01-20

...mer ID : Drain SideWall Concrete

...le Type /Size : 150X150X150 mm

...le grade/Age : M20 / 7 Days Compressive Strength

...rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

...of test : 24/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	17/01/2020	24/01/2020	150.81 X 149.20 X 149.74	22502	8.710	423.0	18.8	18.6
Drain SideWall Concrete	M20	17/01/2020	24/01/2020	149.38 X 150.67 X 151.07	22507	8.888	421.3	18.7	
Drain SideWall Concrete	M20	17/01/2020	24/01/2020	149.80 X 151.94 X 151.76	22762	8.069	413.3	18.2	

Asst.M.D
AE(HQ)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

FOR CIVIL Pro.

R KARTHIKRECHAN
Authorized Signatory
Quality Manager

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M.: 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2020-03-06-20

Name : Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura. **Date: 14/02/2020**

r's Reference : M/s Executive Engineer, K.R.I.D.L

Receipt : BBMP/EE/BTP/WO/135/19-20

er ID : 20-01-20

Type /Size : Drain SideWall Concrete

grade/Age : 150X150X150 mm

ce to BIS codes : M20 / 28 Days Compressive Strength

test : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 14/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	17/01/2020	14/02/2020	151.49 X 150.81 X 149.20	22847	8.987	541.9	23.7	23.4
Drain SideWall Concrete	M20	17/01/2020	14/02/2020	149.41 X 150.94 X 151.00	22552	8.347	512.6	22.7	
Drain SideWall Concrete	M20	17/01/2020	14/02/2020	151.73 X 149.54 X 150.46	22689	8.401	536.9	23.7	

AE(KS)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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R KARTHIKRECHAN
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Quality Manage

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Format No: CP/TF/01

: CP-2020-03-06-20

me : Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

Date: 29/01/2020

's Reference : M/s Executive Engineer, K.R.I.D.L

eceipt : BBMP/EE/BTP/WO/135/19-20

ID : 24-01-20

ype /Size : Cement Concrete Pavement

rade/Age : 150X150X150 mm

to BIS codes : M30 / 7 Days Compressive Strength

st : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 29/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ment Concrete Pavement	M30	22/01/2020	29/01/2020	151.58 X 149.87 X 151.58	22718	8.018	571.6	25.2	25.2
ment Concrete Pavement	M30	22/01/2020	29/01/2020	149.74 X 150.46 X 151.23	22530	8.730	589.1	26.1	
ment Concrete Pavement	M30	22/01/2020	29/01/2020	150.15 X 149.15 X 149.98	22394	8.491	545.3	24.4	

Rathnaj.N.D
AE(Ret)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-06-20 **Date: 19/02/2020**

: Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

: M/s Executive Engineer, K.R.I.D.L

eference : BBMP/EE/BTP/WO/135/19-20

t : 24-01-20

: Cement Concrete Pavement

Size : 150X150X150 mm

Age : M30 / 28 Days Compressive Strength

IS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 19/02/2020

fication ark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Concrete ment	M30	22/01/2020	19/02/2020	150.27 X 151.87 X 150.43	22821	8.007	755.3	33.1	33.0
Concrete ment	M30	22/01/2020	19/02/2020	150.83 X 150.00 X 150.04	22625	8.517	738.2	32.6	
Concrete ment	M30	22/01/2020	19/02/2020	151.68 X 151.57 X 151.14	22992	8.470	765.5	33.3	

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

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Quality Manager

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: CP-2020-03-06-20 **Date: 29/01/2020**

: Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

: M/s Executive Engineer, K.R.I.D.L

eference : BBMP/EE/BTP/WO/135/19-20

pt : 24-01-20

: Cement Concrete Pavement

/Size : 150X150X150 mm

/Age : M30 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 29/01/2020

tification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
t Concrete vement	M30	22/01/2020	29/01/2020	149.68 X 150.77 X 150.73	22567	8.018	581.6	25.8	25.4
t Concrete vement	M30	22/01/2020	29/01/2020	150.62 X 149.52 X 151.79	22521	8.730	587.7	26.1	
t Concrete vement	M30	22/01/2020	29/01/2020	150.21 X 151.84 X 151.37	22807	8.491	557.1	24.4	

AE (Civil)

Assistant Executive Engineer
Madiganahalli Sub Division,
Yelahanka Zone, BBMP

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Date: 19/02/2020

: CP-2020-03-06-20

: Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

ne : M/s Executive Engineer, K.R.I.D.L

Reference : BBMP/EE/BTP/WO/135/19-20

eipt : 24-01-20

D : Cement Concrete Pavement

pe /Size : 150X150X150 mm

de/Age : M30 / 28 Days Compressive Strength

o BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 19/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ment Concrete Pavement	M30	22/01/2020	19/02/2020	151.11 X 149.77 X 149.22	22630	8.007	767.6	33.9	33.3
ment Concrete Pavement	M30	22/01/2020	19/02/2020	149.28 X 151.88 X 151.63	22672	8.517	741.4	32.7	
ment Concrete Pavement	M30	22/01/2020	19/02/2020	152.00 X 151.56 X 151.23	23037	8.470	769.6	33.4	

Assistant Executive Engineer
Kodigehalli Sub Division,
Bangalore.

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: CP-2020-03-06-20

...e : Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

Date: 29/01/2020

: M/s Executive Engineer, K.R.I.D.L

...Reference : BBMP/EE/BTP/WO/135/19-20

...eipt : 24-01-20

...D : Cement Concrete Pavement

...pe /Size : 150X150X150 mm

...de/Age : M30 / 7 Days Compressive Strength

...to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

... : 29/01/2020

...ntification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
...ment Concrete Pavement	M30	22/01/2020	29/01/2020	151.37 X 151.87 X 151.83	22988	8.018	577.5	25.1	25.4
...ment Concrete Pavement	M30	22/01/2020	29/01/2020	149.29 X 149.30 X 151.37	22289	8.730	590.5	26.5	
...ment Concrete Pavement	M30	22/01/2020	29/01/2020	150.31 X 151.22 X 149.93	22730	8.491	560.2	24.6	

AE(ND)

Assistant Executive Engineer
...Sub Division
...Zone

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R KARTHIKRECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Date: 19/02/2020

: CP-2020-03-06-20
: Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.
me : M/s Executive Engineer, K.R.I.D.L
Reference : BBMP/EE/BTP/WO/135/19-20
ceipt : 24-01-20
ID : Cement Concrete Pavement
pe /Size : 150X150X150 mm
ade/Age : M30 / 28 Days Compressive Strength
to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
t : 19/02/2020

dentification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ment Concrete Pavement	M30	22/01/2020	19/02/2020	150.47 X 151.29 X 149.93	22764	8.007	753.4	33.1	32.9
ment Concrete Pavement	M30	22/01/2020	19/02/2020	150.35 X 151.11 X 149.94	22720	8.517	741.8	32.6	
ment Concrete Pavement	M30	22/01/2020	19/02/2020	151.13 X 150.11 X 150.88	22686	8.470	749.8	33.1	

Assistant Executive Engineer
Sub Division

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	: CP-2020-03-06-20	**Date: 29/01/2020**
e	: Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.	
	: M/s Executive Engineer, K.R.I.D.L	
Reference	: BBMP/EE/BTP/WO/135/19-20	
eipt	: 24-01-20	
D	: Cement Concrete Pavement	
e /Size	: 150X150X150 mm	
de/Age	: M30 / 7 Days Compressive Strength	
BIS codes	: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5	
	: 29/01/2020	

ntification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ent Concrete Pavement	M30	22/01/2020	29/01/2020	149.80 X 150.23 X 151.62	22504	8.018	578.2	25.7	25.5
ent Concrete Pavement	M30	22/01/2020	29/01/2020	150.91 X 150.55 X 150.25	22719	8.730	595.1	26.2	
ent Concrete Pavement	M30	22/01/2020	29/01/2020	151.12 X 149.60 X 149.52	22608	8.491	556.3	24.6	

AE(HQ)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-06-20 **Date: 19/02/2020**

: Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

: M/s Executive Engineer, K.R.I.D.L

Reference : BBMP/EE/BTP/WO/135/19-20

ipt : 24-01-20

) : Cement Concrete Pavement

e /Size : 150X150X150 mm

le/Age : M30 / 28 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 19/02/2020

ntification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ent Concrete Pavement	M30	22/01/2020	19/02/2020	150.73 X 150.80 X 150.29	22730	8.007	768.1	33.8	33.0
ent Concrete Pavement	M30	22/01/2020	19/02/2020	151.12 X 149.27 X 149.76	22558	8.517	727.0	32.2	
ent Concrete Pavement	M30	22/01/2020	19/02/2020	149.60 X 150.38 X 151.80	22497	8.470	743.9	33.1	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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R KARTHIKRECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/01/2020

: CP-2020-03-06-20

: Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

ame : M/s Executive Engineer, K.R.I.D.L

's Reference : BBMP/EE/BTP/WO/135/19-20

ceipt : 25-01-20

ID : Cement Concrete Pavement

ype /Size : 150X150X150 mm

rade/Age : M30 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

st : 30/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	23/01/2020	30/01/2020	150.79 X 150.11 X 150.24	22635	8.018	586.6	25.9	25.4
Cement Concrete Pavement	M30	23/01/2020	30/01/2020	150.04 X 150.35 X 149.81	22559	8.730	587.6	26.0	
Cement Concrete Pavement	M30	23/01/2020	30/01/2020	151.36 X 150.18 X 149.93	22732	8.491	549.9	24.2	

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/02/2020

: CP-2020-03-06-20
: Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.
: M/s Executive Engineer, K.R.I.D.L
erence : BBMP/EE/BTP/WO/135/19-20
: 25-01-20
: Cement Concrete Pavement
Size : 150X150X150 mm
Age : M30 / 28 Days Compressive Strength
IS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
: 20/02/2020

tification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ent Concrete Pavement	M30	23/01/2020	20/02/2020	151.86 X 150.47 X 149.31	22849	8.007	775.1	33.9	33.4
ent Concrete Pavement	M30	23/01/2020	20/02/2020	150.34 X 150.08 X 150.12	22564	8.517	743.5	32.9	
ent Concrete Pavement	M30	23/01/2020	20/02/2020	149.75 X 151.64 X 151.64	22707	8.470	758.8	33.4	

Assistant Executive Engineer.
Yeshwanthpura Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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FOR CIVIL Pro.
R KARTHIKRECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2020-03-06-20

: Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.

Date: 30/01/2020

: M/s Executive Engineer, K.R.I.D.L

: BBMP/EE/BTP/WO/135/19-20

: 25-01-20

: Cement Concrete Pavement

: 150X150X150 mm

: M30 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 30/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Cement Concrete Pavement	M30	23/01/2020	30/01/2020	151.21 X 149.07 X 149.15	22541	8.018	580.7	25.8	25.7
Cement Concrete Pavement	M30	23/01/2020	30/01/2020	149.43 X 150.08 X 151.74	22427	8.730	591.7	26.4	
Cement Concrete Pavement	M30	23/01/2020	30/01/2020	149.55 X 151.84 X 150.26	22707	8.491	565.7	24.9	

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R KARTHIKRECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Yediyanahalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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	: CP-2020-03-06-20	Date: 20/02/2020
	: Improvements to Roads and Drains of Kempapura Janatha Colony and Surrounding Areas in Ward No.07 Byataranapura.	
	: M/s Executive Engineer, K.R.I.D.L	
s Reference	: BBMP/EE/BTP/WO/135/19-20	
ceipt	: 25-01-20	
ID	: Cement Concrete Pavement	
ype /Size	: 150X150X150 mm	
rade/Age	: M30 / 28 Days Compressive Strength	
e to BIS codes	: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5	
est	: 20/02/2020	

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	23/01/2020	20/02/2020	151.87 X 149.35 X 149.63	22681	8.007	750.8	33.1	33.0
Cement Concrete Pavement	M30	23/01/2020	20/02/2020	151.02 X 149.60 X 151.58	22592	8.517	733.2	32.5	
Cement Concrete Pavement	M30	23/01/2020	20/02/2020	150.05 X 150.60 X 149.81	22597	8.470	755.8	33.4	

Assistant Executive Engineer
Yelahanka Sub Division,
Yelahanka Zone, B.B.M.P.

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R KARTHIKRECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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: M/s Executive Engineer, K.R.I.D.L
: BBMP/EE/BTP/WO/135/19-20
eference : 25-01-20
pl : Cement Concrete Pavement
: 150X150X150 mm
Size : M30 / 7 Days Compressive Strength
e Age : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
BIS codes : 30/01/2020

rtification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ent Concrete Pavement	M30	23/01/2020	30/01/2020	151.80 X 151.16 X 151.39	22945	8.018	574.7	25.0	25.4
ent Concrete Pavement	M30	23/01/2020	30/01/2020	150.22 X 149.74 X 149.57	22494	8.730	595.5	26.5	
ent Concrete Pavement	M30	23/01/2020	30/01/2020	150.59 X 149.85 X 149.39	22566	8.491	559.5	24.8	

Assistant Executive Engineer,
Yelahanka Sub Division,
Yelahanka Zone, BBMP.

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Authorized Signatory
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: BBMP/EE/BTP/WO/135/19-20

: 25-01-20

: Cement Concrete Pavement

: 150X150X150 mm

: M30 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 20/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Cement Concrete Pavement	M30	23/01/2020	20/02/2020	150.43 X 149.51 X 151.18	22490	8.007	760.7	33.8	33.4
Cement Concrete Pavement	M30	23/01/2020	20/02/2020	151.09 X 150.06 X 150.92	22673	8.517	736.0	32.5	
Cement Concrete Pavement	M30	23/01/2020	20/02/2020	151.05 X 150.79 X 150.12	22777	8.470	769.9	33.8	

AE(Retd)

Assistant Executive Engineer

CIVIL PRO BANGALORE Sig. Date

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R KARTHIKRECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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